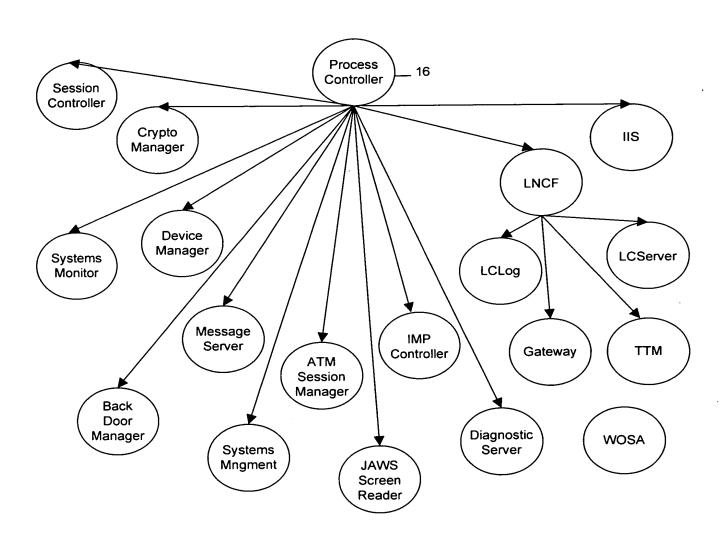


Global CAT Architecture * - * * * 1 - 1 - 3 Applications Welcome Mat Navigation Balance Shell Withdrawals Deposit Transfers Inquiry _10 JAWS OCX 12 Infrastructure VIP Operator **ATM** Diagnostics **Diagnostics** Interface Screen Reader **IMP** Session Client Server Installation, (JAWS) (OI) Manager Configuration, Utilities NTDS Systems Systems Management **Business Services** Monitor Rule Language Installation **Transaction Process Broker** Mgr Services Controller Legacy **TXN** LCLog Executer Message **Touch Point Services** Session Server TTM Controller Screen Objects Front Presen-LCServer Crypto Configuration Back Door Mgr tation Manager Door LNCF Manager Event GateWay Configuration Logging Notification Utilities NTDS Peripheral Device Interfaces **NTDS Device NTDS / WOSA Device Wrapper WOSA PinPad** Manager WOSA API interface **WOSA XFS Manager** WOSA SPI interface **WOSA SPIs Device PDHS** Operating System (Windows NT 4.0 and related services) Language IIS Database SoundBlaster Touchscreen **JAWS Device Drivers** WDT/Video Arcnet Rules Database NT Kernel

-	
16	Process Control: System Startup and Shutdown
18 —	System Monitor
20 —	VIP Headphones
22	VIP Screen Reader
24	Operator Interface
26 —	ATM Session Manager (ASM)
28 —	Devices
30 —	System Management
32 —	Diagnostics
34 —	Intelligent Maintenance Panel (IMP)
36 —	Logging
38 —	Installation and Fallback
40 —	Configuration

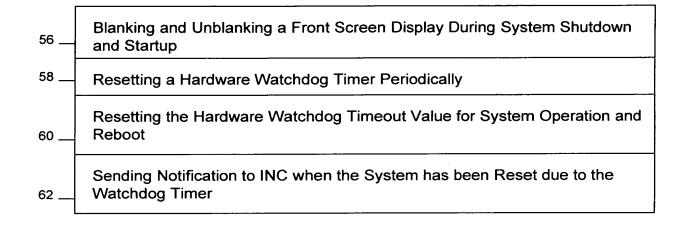
42	Starting and Monitoring Platform Processes and Services	
44	Restarting Processes or Rebooting the System	
46	Coordinating an Orderly Shutdown in Most Cases	
48	Maintaining a Registry of Processes Started	
50	Root of Most System Management Commands	

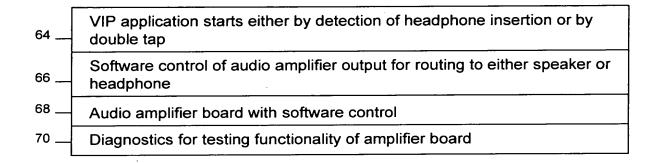
Global CAT Processes and Services

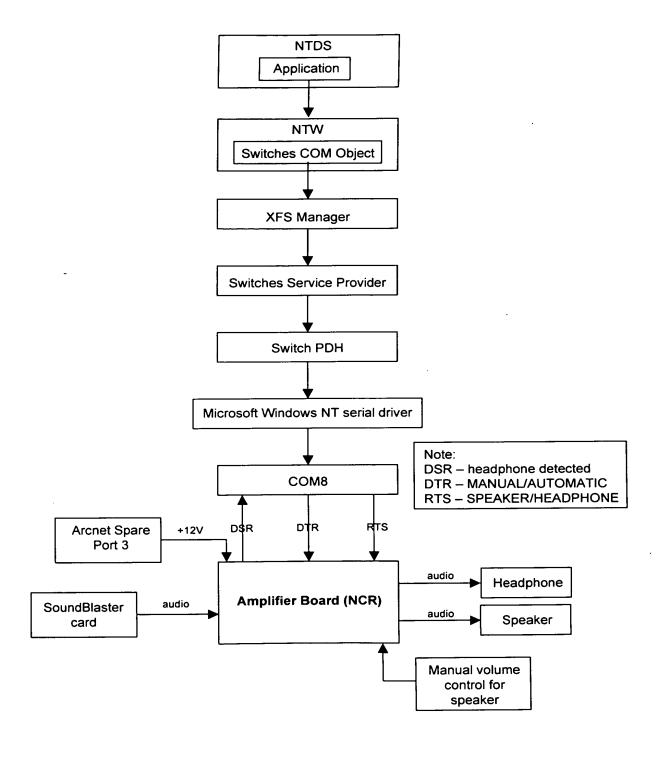


	Operation	Who Initiates	Actions
	Local Shutdown	IMP	Stop Cat (C), Shutdown (B), reboot (optional (C)
54	Stop Cat	INC, OI	Prevent new customer session (B), time out current session (C), kill LDM, TAFE, GI (C)
	Stop Immediate	INC, OI	Kill LDM, TAFE, GI (C), Stop all sessions (B)
	Stop and Isolate	INC	Shutdown (N)
52	Start Cat	INC, OI	Start LDM, TAFE, GI (C), Allow customer session (B)
	Reboot	INC, OI	Stop Cat (C), Reboot (B)

Legend: (C) NT CAT only (N) NTDS only (B) both CAT Operations



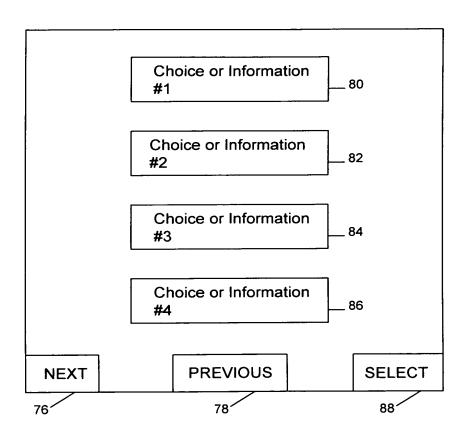




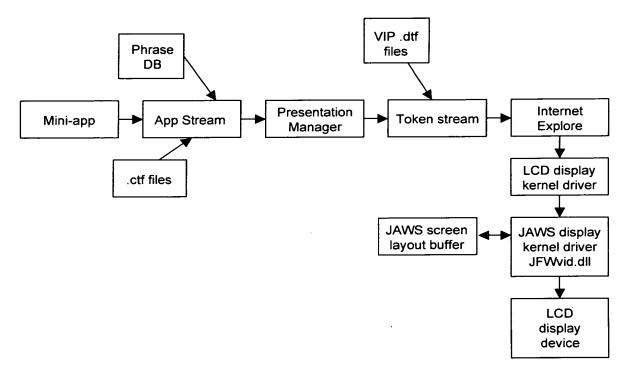
72 Text-to-speech capability

Screen layout and navigational method that allows sequence through screens and selections using only the touchscreen

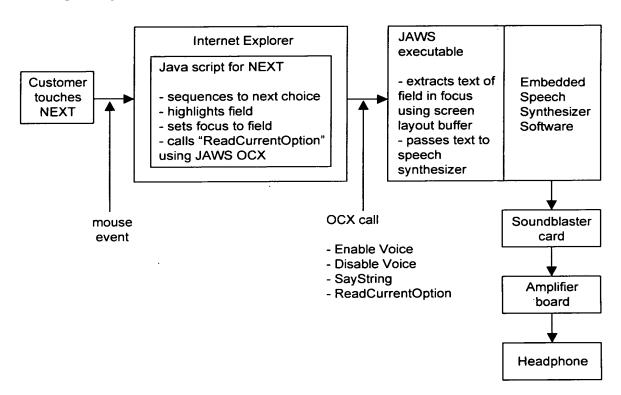
VIP Screen Layout



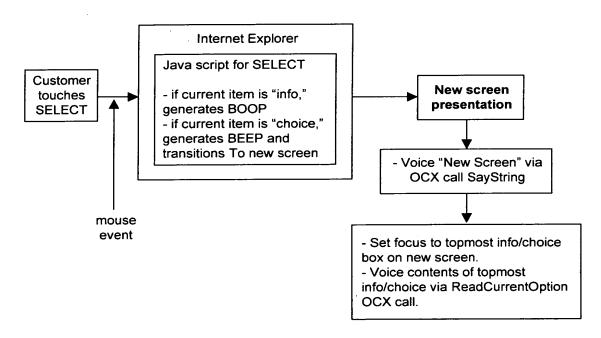
Screen Presentation



Navigating To Choice

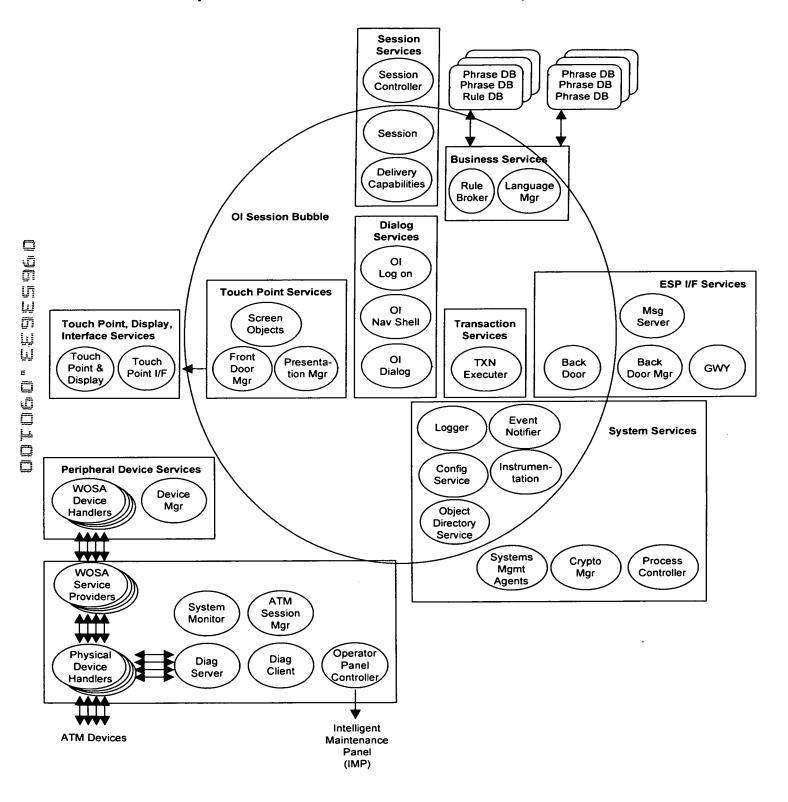


Selecting a Choice



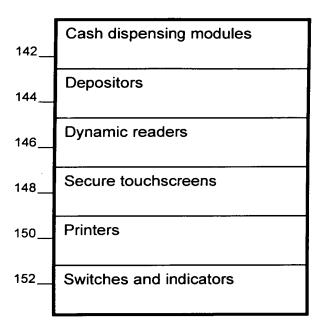
90	Orderly shut down or reboot system
92	Start ATM
94	Stop ATM
96	Stop ATM immediate
98	View status of ATM (device up/down, host up/down, ATM up/down)
100	View activity/MIS log (peruse)
102	View NT event logs (log viewer)
104	View software release information
106 —	Configure ATM (auto and manual configuration)
108 —	View ATM configuration
110	View TTM status
112	Load keys (P75)
114 —	Start back admin
116	Start diagnostics (P75)
118	Start command shell
120	User account administration
•	

Components Overview: Global CAT in Operator Session



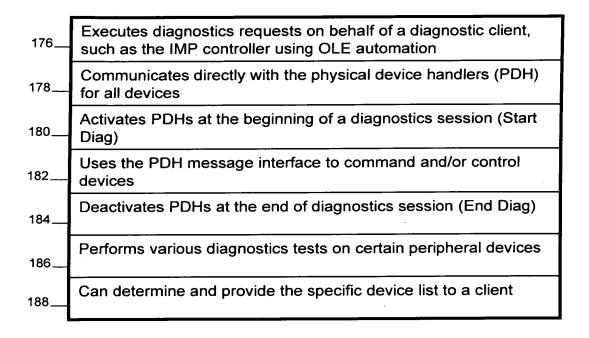
1	
	Bring up browser in full-screen mode
122	
	Coordinate starting and re-starting of customer sessions
124	, , , , , , , , , , , , , , , , , , ,
	Coordinate starting of an operator session at the front screen
	Coordinate starting of an operator session at the nome serior.
126	
	Coordinate entering into and exiting out of hardware diagnostics
128	initiated from the intelligent maintenance panel (IMP)
	Support "Start/Stop/Stop immediate CAT" functions
130	
130	
	Display the out-of-service screen under various scenarios
132	Diopialy the dat of derived derived and an activities as a series as
132	
	Description out of continue by manitoring status of host connection
124	Recover from out-of-service by monitoring status of host connection,
134	and status of devices and switches which impact usability of the ATM
	by customers
	Report various ATM status information when the system management
136	agent or operator interface inquires the component
	i gom or operation that the contract of the co
	Report when the ATM is out of service, and when it is back in service
	·
138	after having been out of service
1	Report the state of the ATM to indicate whether it is in use or idle,
140	diagnostics is running, or back administration utility is running

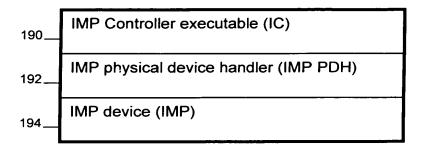
Responsibilities	Collaborators
Bring up browser	Browser
Blank and un-blank front screen	Video blanking kernel driver
Start and restart customer session	Web Browser, customer session ASP script, Session Controller
Start operator session at front screen	Web Browser, operator session ASP script, Session Controller
Enter and exit diagnostics	Operator Panel Controller, Device Manager
Start/stop/stop immediate CAT	Device Manager, Process Controller
Display out-of-service screen	Browser
Receive session status changes	Welcome Mat, Operator Interface
Recover from out of service	Device Manager, Back Door Manager
Request device status	Device Manager
Receive host status instrument events	Back Door Manager
Respond to inquiry about ATM status	Command Dispatch Agent, Operator Interface
Receive OI dialogs status changes	Back Admin Dialog, Diagnostics Dialog
Report different states of ATM	Event Notifier



154	Status Monitoring
156	Inquiry and Control Commands
158	File Transfer and Remote Command Execution
160	Software Distribution
162	Remote Peruse
164	Log Upload
166	Auto Configuration
168	DNS Load Balancing Support
170	Device MIS
172	Customer MIS
174	Time Synchronization

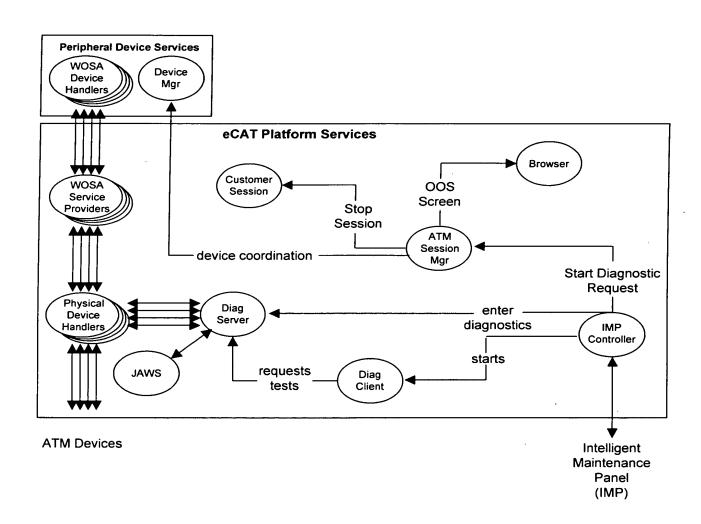
Device	Description
CAT	Entire CAT
CRT/TSC/STS	Touch Screen
RDR	Dip/Dynamic Reader
PTR/PRT	Printer
CDM	Cash Dispenser
DEP	Depositor
TRD	Transfer Card Reader
SAF	Cash Safe
FLS	CPE Flash Memory
sw	Switch
КММ	Eurocheck NM
CS	Citishield
SCM	Belgium SCM
PIN	PIN PAD*





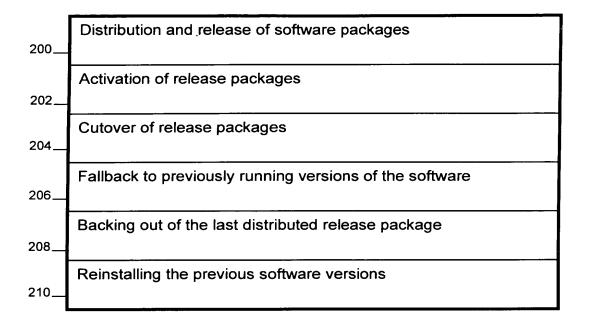
INIT	Device Manager "device initialization"
oos	Out of Service condition
IDLE	At "Hello screen" (ready for customer session)
BUSY	Customer session in progress
ADMN	Back Admin (proofing) in progress (within OI session)
DIAG	Diagnostics Session in progress (note: this mode display is not real useful for the pilot due to only rear diagnostics being supported in FLTLL IMP screen mode)
OPEN	Safe door is open (this status is obtained from DM)
TEST	CDM Tests (or Self Tests) in progress NOT in the Pilot phase
DOWN	The result of doing a STOP CAT
OI	OI Session in progress (NEW Session State for VIP GCAT)

Diagnostic Component's Interactions



Business log

196__ Runtime logs



Installing and configuring software

Configuring the CAT to be operational